

Ammonium Perchlorate

PRIMARY DOMESTIC AP USERS FOR PROPULSION APPLICATIONS

Produced at the request of AFMC LO/JAV - January, 1998

FACILITY NAME AND LOCATION	TYPE	AP-RELATED PRODUCTS
Air Force Research Laboratory (formerly Phillips Lab) OLAC PL/RK 5 Pollux Drive Edwards AFB CA 93524-7048	Government research laboratory for propulsion	Propellants and rocket motors
Alliant Techsystems Allegany Ballistics Laboratory 210 State Route 956 Rocket Center WV 26726 (304) 726-5000	Propulsion manufacturer/subcontractor	Solid propellant tactical rocket motors and propellant production and research.
Alliant Techsystems Bacchus Works PO Box 98 Magna UT 84044 (formerly Hercules Aerospace) (801) 250-5911	Propulsion manufacturer/subcontractor	Solid propellant strategic and space motors production and research. Recent AP reclamation pilot plant
Army Aviation & Missile Command Redstone Arsenal AL 35898 (205) 876-2151 (205) 876-1500	Government propulsion research lab	Solid propellant tactical motors and propellant research
Atlantic Research Corporation 5945 Wellington Road Gainesville VA 20155 (703) 754-5316	Propulsion manufacturer/subcontractor	Production and research of solid propellant tactical motors, propellants, and plastic-bonded explosives containing AP
Atlantic Research Corporation PO Box 1036 Camden AR 70701 (501) 574-0610	Propulsion manufacturer/subcontractor	Production of tactical solid propellant rocket motors
Industrial Solid Propulsion Inc. 1955 S. Palm St. Suite 15 Las Vegas NV 89104 (702) 641-2302	Manufacturer	Production of small solid propellant motors and gas generators
Gencorp Aerojet PO Box 13222 Sacramento CA 95813 (916) 351-8668	Propulsion manufacturer/subcontractor	Production and research of solid propellant rocket motors, liquid propellant engines. Propellant washout facility.
NASA Marshall Space Flight Center AL 35812 (205) 544-2121	Government propulsion research lab	Solid propellant test motors
Naval Air Warfare Center Weapons Div 1 Administration Circle China Lake CA 93555 (760) 939-9011	Government propulsion research lab	Propellant and rocket motor research
Naval Surface Warfare Center Indian Head Div 101 Strauss Ave Indian Head MD 20640 (301) 743-4000	Government propulsion research lab	Propellant and rocket motor research, plastic-bonded explosives

Pratt & Whitney Space Propulsion Operations Chemical Systems PO Box 49028 San Jose CA 95161 (408) 776-9121	Propulsion manufacturer/ subcontractor	Production of solid propellant space and tactical motors
Talley Industries Inc. PO Box 849 Mesa AZ 85205	Propulsion manufacturer/ subcontractor	Production of small ejection rocket motors
Thiokol Corporation Utah DLV Operations and Space Operations PO Box 707 Brigham City UT 84302 (facilities located near Promontory UT) (801) 863-3511	Propulsion manufacturer/ subcontractor	Production and research of solid propellant launch, strategic, and tactical rocket motors. Propellant washout/AP reclamation facilities
Thiokol Corporation Elkton DLV Operations PO Box 241 Elkton MD 21922 (410) 392-1429	Propulsion manufacturer/ subcontractor	Production and research of solid propellant space motors and propellants.
Universal Propulsion Company (unit of Talley Ind.) 25401 N. Central Ave Phoenix AZ 85027-9801 (602) 869-8067	Propulsion manufacturer/ subcontractor	Production of small boost and seat ejection solid propellant motors.
FORMER FACILITIES		
Alliant Techsystems McGregor TX 76657 (formerly Hercules, also Rocketdyne Solid Rocket Division of Rockwell prior to acquisition by Hercules)	Propulsion manufacturer/ subcontractor	Solid propellants and rocket motors (facility closed 1996).
California Institute of Technology Jet Propulsion Laboratory North Edwards CA	Propellant research lab	Solid propellant research and development (facility closed 1995).
Gencorp Aerojet Iuka MS	Propulsion manufacturer/ subcontractor to NASA	Space Shuttle Advanced Solid Rocket Motor (cancelled, facility closed 1993, subscale propellant manufacture only prior to shutdown)
Lockheed Propulsion Company Redlands CA (former Grand Central Rocket Co.)	Propulsion manufacturer/ subcontractor	Solid propellants and rocket motors 1961-1975
Thiokol Corporation Huntsville Division (at Redstone Arsenal AL)	Propulsion manufacturer/ subcontractor	Solid propellants and tactical and space rocket motors (facility closed 1996).

MAJOR AP SUPPLIERS FOR PROPULSION APPLICATIONS:

Western Electrochemical Company (WECCO), a subsidiary of American Pacific Corp.
PO Box 629

Cedar City UT 84720

Note: *Cedar City plant* in Iron County, UT was opened in 1989 following 1988 explosion at *former plant in Henderson, NV*; company known at that time as Pacific Engineering and Production Company (PEPCON). In 1992, WECCO quoted planned production quantities of 20 million lb per year.

Kerr-McGee Chemical Corp

Henderson NV

(headquarters Oklahoma City OK)

Note: Quoted production capacity of 40 million lb per year. However, in October 1997, Kerr-McGee announced the sale of its AP manufacturing business to American Pacific. Kerr-McGee retains the Henderson plants and will continue to produce other chemical products there.

Other companies that produced AP in large quantities in the 1960s include:

Hooker Chemical - plant location unknown (Hooker was taken over by Occidental Chemical Corp - may be able to get further information from Occidental at www.oxychem.com)

Pennwalt - plant location unknown (merged with Elf Atochem North America in 1989 - may be able to get more information from Elf through www.elf-atochem.com)

American Potash (acquired by Kerr-McGee in 1967)

RECOMMENDED REFERENCES:

Schitt, Alfred A., Northern Illinois University, *Perchloric Acid and Perchlorates*, published by the G. Frederick Smith Chemical Company, 867 McKinley Ave., Columbus OH 43223, 1979.

ADDITIONAL SUGGESTED CONTACT:

Bay Area Water Authority

San Jose CA

(Monitors water supply in proximity of United Technologies/Pratt & Whitney plant)